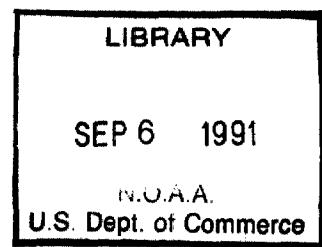


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MONTHLY WEATHER SUMMARY

Prepared and published by the
Caribbean Meteorological Institute
Husbands, St. James, Barbados W.I.



PART A
January to December
1989

National Oceanic and Atmospheric Administration

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Imaging Subcontractor
12200 Kiln Court
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March 28, 2002

CONTENTS

1. Station List
2. Station Measurements
3. January to December 1989, Tables I to VI

For each station the tables are:

- Table I: Summary of observations at fixed hours
Table II: Summary of daily observations
Table III: Summary of agrometeorological observations
Table IV: Summary of rainfall intensity records
Table V: Summary of wind speed records
Table VI: Summary of sunshine records

LIST OF STATIONS

COUNTRY	STATION	LAT. DEG MIN	LONG. DEG MIN	Alt. M
Grenada	Calvigny	12 01	61 47	
	Mirabeau	12 08	61 49	
	Point Salines Airport	12 01	61 43	7
St. Vincent	E. T. Joshua Airport	13 09	61 13	13
St. Lucia	Hewanorra Airport	13 45	60 57	10
	Roseau Winban	13 56	61 02	
	Vigie Airport	14 01	61 00	2
Dominica	Melville Hall Airport	15 35	61 18	14
Antigua	V. C. Bird Airport	17 08	61 47	10
St. Kitts	Golden Rock Airport	17 18	62 41	
	National Agric. Corp.	17 18	62 72	48
Cayman Islands	West Bay G. C.	19 22	81 24	

STATION MEASUREMENTS

STATION	SYNOP OBSERVATIONS	TEMPERATURE	HUMIDITY	WIND SPEED & DIRECTION	DAILY WIND MILEAGE	RAINFALL INTENSITIES	RAINFALL	EVAPORATION	SUNSHINE	RADIATION
Calvigny	X					X			X	
Mirabeau	X	X				X			X	
Point Salines	X	X	X			X				
E. T. Joshua Airport	X		X	X						
Hewanorra Airport	X	X	X			X	X	X	X	
Roseau Winban	X	X				X	X	X	X	
Vigie Airport	X	X	X			X				
McLlville Hall Airport	X	X	X			X			X	
V. C. Bird Airport	X	X	X			X				
Golden Rock Airport	X		X							
National Agric. Corp.		X	X			X	X		X	
West Bay G. C.		X	X			X	X	X	X	X

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

COUNTRY	MONTH	STATION	MEAN TEMPERATURE AND HUMIDITY				PRESS.	REDUCED PRESS.	TO MSL	TOTAL CLOUD AMOUNT (eights)			VISIBILITY IN km (No. of Obs)										
			MONTH HOUR	DRY BULB °C	WET BULB °C	VAPOUR PRESS. tenths %				MEAN ANT	0	1.2	3-5	6,7	8	9	0.0	0.4	1.0	2.0	3.2	4.8	7.1
GRENADA	HEIGHT (above MSL)	LST	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	>
Mirabeau	JAN 08	25.2	22.7	25.5	80						5.5	0	0	16	12	3	0						
	FEB 08	25.0	22.4	25.0	79						5.4	0	0	16	11	1	0						
	MAR 08	25.3	22.4	24.8	77						5.4	0	0	19	8	4	0						
	APR 08	26.1	23.3	26.3	78						5.3	0	0	20	8	2	0						
	MAY 08	26.6	23.8	27.3	78						5.5	0	0	18	9	4	0						
	JUN 08	26.9	24.7	29.2	83						6.0	0	0	12	10	8	0						
	JUL 08	27.1	24.9	29.7	83						6.3	0	0	9	15	7	0						
	AUG 08	28.1	25.4	30.2	80						5.2	0	0	19	12	0	0						
	SEP 08	27.3	25.2	30.3	83						5.7	0	1	12	14	3	0						
	OCT 08	27.7	25.2	30.1	81						4.9	0	0	23	8	0	0						

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

COUNTRY	STATION	MONTH	HOUR	MEAN TEMPERATURE AND HUMIDITY				MEAN PRESS.	REDUCED MEAN	WIND SPEED	WIND kts	TOTAL CLOUD AMOUNT (eights)				VISIBILITY IN km (No. of Obs)												
				DRY BULB °C	WET BULB °C	VAPOUR PRESS. hPa & tenths	REL %					NUMBER OF OBSERVATIONS	MEAN	ANT	0	1.2	3-5	6,7	8	9	TO TO	TO TO	TO TO	TO TO				
GRENADA																												
Point Salines	JAN	02	24.6	22.4	25.2	82	1014.1	8.7	2.0	0	24	6	1	0	0	0	0	0	0	0	0	0	1	6	24			
Airport	08	25.3	22.7	25.5	79	1015.6	9.7	3.1	0	13	13	5	0	0	0	0	0	0	0	0	0	0	0	0	11	20		
	14	27.6	23.6	25.9	70	1014.2	15.3	3.9	0	11	10	0	0	1	0	0	0	0	0	0	0	0	0	1	5	24		
	20	25.0	22.6	25.6	81	1014.7	8.8	2.1	0	22	8	1	0	0	0	0	0	0	0	0	0	0	0	1	10	20		
	FEB	02	24.3	22.0	24.6	81	1014.8	8.3	3.0	0	15	9	4	0	0	0	0	0	0	0	0	0	0	1	7	20		
	08	25.3	22.6	25.3	78	1016.4	8.9	4.0	0	11	9	8	0	0	0	0	0	0	0	0	0	0	0	0	10	18		
	14	27.7	23.3	25.4	68	1014.9	13.5	4.3	0	4	16	8	0	0	0	0	0	0	0	0	0	0	0	0	1	6		
	20	24.8	22.4	25.0	80	1015.4	8.4	3.3	0	15	7	6	0	0	0	0	0	0	0	0	0	0	0	0	1	6		
MAR	02	24.3	22.2	25.0	82	1013.6	8.3	2.9	0	13	15	3	0	0	0	0	0	0	0	0	0	0	0	0	8	23		
	08	26.0	22.8	25.3	74	1015.1	10.3	4.5	0	11	6	13	1	0	0	0	0	0	0	0	0	0	0	0	11	20		
	14	27.7	23.3	25.5	70	1013.6	13.2	4.9	0	4	14	13	0	0	0	0	0	0	0	0	0	0	0	0	6	25		
	20	24.9	22.3	25.0	80	1014.1	8.6	3.7	0	15	6	10	0	0	0	0	0	0	0	0	0	0	0	0	1	6		
APR	02	25.1	22.8	26.0	82	1013.3	11.9	2.7	0	18	9	3	0	0	0	0	0	0	0	0	0	0	0	0	0	16	14	
	08	26.6	23.5	26.5	76	1015.4	12.9	4.1	0	7	15	8	0	0	0	0	0	0	0	0	0	0	0	0	0	17	13	
	14	28.1	24.1	26.9	71	1013.7	15.7	4.2	0	8	13	8	1	0	0	0	0	0	0	0	0	0	0	0	0	7	23	
	20	25.7	23.1	26.1	79	1013.9	11.8	2.6	0	17	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	16	14	
MAY	02	25.8	23.4	26.8	81	1014.7	11.6	2.5	0	20	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	16	15	
	08	27.3	24.0	27.2	74	1016.2	14.3	4.0	0	9	12	10	0	0	0	0	0	0	0	0	0	0	0	0	0	21	10	
	14	28.6	24.6	27.5	70	1014.7	16.4	4.1	0	8	13	10	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
	20	26.3	23.7	27.3	80	1015.1	12.1	2.8	0	18	8	5	0	0	0	0	0	0	0	0	0	0	0	0	1	14	16	
JUN	02	26.3	24.8	30.0	88	1014.7	10.4	3.8	0	9	13	7	1	0	0	0	0	0	0	0	0	0	0	0	1	16	13	
	08	27.7	25.5	30.9	83	1016.0	12.8	4.9	0	2	16	11	1	0	0	0	0	0	0	0	0	0	0	0	0	9	21	
	14	28.6	25.7	31.1	78	1015.0	14.2	4.7	0	4	14	10	2	0	0	0	0	0	0	0	0	0	0	0	0	1	12	16
	20	26.5	24.9	30.2	87	1015.3	10.1	4.2	0	9	13	7	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	16

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

GRENADE

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

COUNTRY	STATION	MONTH	HOUR	MEAN TEMPERATURE AND HUMIDITY				REDUCED PRESS.	MEAN WIND SPEED	MEAN WIND TO MSL	TOTAL CLOUD AMOUNT (eights)				VISIBILITY IN KM (No. of Obs)				
				DRY BULB °C	WET BULB °C	VAPOUR PRESS. hPa & tenths	REL HUM %				0.0	0.4	1.0	2.0	3.2	4.8	7.1	> 15.	
ST. LUCIA	Dewanorrra Airport 10m	JAN	02	25.0	22.4	24.9	79	1015.2	15.1	3.0	0	16	9	3	1	0	0	7 22	
		08	25.7	22.7	25.3	77	1016.7	15.7	4.1	0	8	14	8	1	0	0	0	1 1	
		14	27.8	23.9	26.5	71	1015.2	16.0	3.9	0	7	19	5	0	0	0	0	6 24	
		20	25.4	22.6	25.1	77	1015.8	15.2	3.0	0	13	14	3	0	0	0	0	5 24	
		FEB	02	24.7	22.3	24.9	80	1016.0	14.5	3.3	0	11	9	4	0	0	0	1 4 19	
		08	25.4	22.6	25.1	77	1017.4	16.4	4.4	0	4	18	6	0	0	0	0	5 21	
		14	27.4	23.5	26.0	71	1016.0	16.2	3.8	0	8	14	6	0	0	0	0	3 23	
		20	25.0	22.4	25.2	79	1016.5	15.4	3.5	0	11	10	6	0	0	0	0	2 22	
		MAR	02	24.6	22.1	24.6	80	1014.6	14.6	3.6	0	9	14	4	0	0	0	0	2 25
		08	25.4	22.2	24.2	75	1016.1	14.9	4.7	0	8	7	14	2	0	0	0	5 24	
APR	Dewanorrra Airport 10m	14	27.2	23.3	25.4	70	1014.8	15.0	4.3	0	6	16	7	2	0	0	0	0	
		20	25.1	22.2	24.4	77	1015.3	13.6	3.9	0	12	10	7	1	0	0	0	1 29	
		02	25.0	22.7	25.7	81	1014.4	13.4	3.5	0	10	12	3	1	0	0	0	0	
		08	26.1	23.3	26.3	78	1016.5	14.4	5.3	0	3	11	15	1	0	0	0	4 25	
		14	27.8	24.2	27.4	74	1014.9	13.9	4.7	0	4	17	8	1	0	0	0	3 27	
		20	25.5	22.9	25.9	80	1015.2	13.5	3.6	0	15	7	8	0	0	0	0	0	
		MAY	02	26.0	23.2	26.4	78	1015.8	13.9	2.5	0	19	7	2	0	0	0	0	
		08	27.3	23.7	26.5	73	1017.1	14.6	3.8	0	11	12	8	0	0	0	0	0	
		14	29.3	24.5	27.0	66	1015.9	15.0	3.5	0	11	14	6	0	0	0	0	1 30	
		20	26.5	23.4	26.4	76	1016.3	13.7	3.1	0	14	11	6	0	0	0	0	0	

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

COUNTRY STATION HEIGHT (above MSL)	MONTH STATION HEIGHT (above MSL)	HOUR LST	MEAN TEMPERATURE AND HUMIDITY				PRESS. REDUCED TO MSL hPa & tenths	MEAN WIND SPEED kt	TOTAL CLOUD AMOUNT (eights)			VISIBILITY IN Km (No. of obs)									
			DRY BULB	WET BULB	VAPOUR PRESS.	REL HUM			Number of observations			0.0			0.0						
									MEAN	0	1	1.2	3-5	6,7	8	9	0.3	> 15.			
DOMINICA	Melville-Hall Airport	08	24.7	22.9	26.6	85	1017.7	6.0	5.4	0	1	15	1.3	2	0	0	0	2	10	18	
		14	26.9	24.3	28.1	80	1016.2	7.4	5.3	0	3	10	1.7	1	0	0	0	0	1	5	25
		08	24.1	22.7	26.6	88	1018.1	6.8	6.0	0	1	6	1.9	1	0	0	0	1	6	7	13
		14	26.5	24.2	28.5	82	1016.9	7.9	5.9	0	3	5	1.8	1	0	0	0	1	2	4	20
		08	25.1	23.1	26.7	84	1016.7	5.4	5.7	0	3	8	1.8	1	0	0	0	1	0	5	24
		14	26.8	24.3	28.4	80	1015.6	6.9	5.4	0	3	10	1.7	1	0	0	0	0	2	1	28
		08	25.5	23.6	27.6	84	1016.9	4.0	6.0	0	0	10	1.8	2	0	0	0	1	2	5	22
		14	27.1	24.5	28.6	80	1015.4	6.6	5.4	0	4	9	1.6	1	0	0	0	1	0	2	27
		08	26.9	23.4	26.3	74	1017.5	5.7	5.0	0	3	14	1.4	0	0	0	0	0	1	5	25
		14	28.4	24.0	26.3	68	1016.3	7.7	4.9	0	2	18	1.0	1	0	0	0	0	1	3	27
		08	27.6	24.5	28.3	77	1017.6	8.2	6.0	0	1	7	2.0	2	0	0	0	1	2	9	18
		14	28.9	25.1	28.9	73	1016.9	9.1	6.0	0	2	7	1.8	3	0	0	0	2	1	7	20
		08	27.7	25.1	29.9	81	1017.1	6.0	5.3	0	1	15	1.2	1	0	0	0	0	3	14	12
		14	29.4	25.9	30.6	75	1016.4	8.3	4.8	0	5	14	1.0	2	0	0	0	4	4	23	
		08	27.7	25.1	29.8	81	1014.8	3.3	4.7	0	5	14	1.1	0	0	0	0	0	0	10	20
		14	29.4	25.8	30.6	75	1014.0	4.7	5.3	0	2	16	9	4	0	0	0	0	2	10	19
		08	26.5	24.8	30.0	87	1012.7	3.7	6.1	0	1	8	1.6	5	0	0	0	0	1	12	17
		14	29.2	25.8	30.6	76	1011.7	7.6	6.0	0	1	10	1.2	6	0	0	0	0	6	23	
		08	27.1	24.9	29.7	83	1014.7	2.9	5.8	0	0	10	1.9	0	0	0	0	0	6	23	
		14	29.0	25.6	30.3	76	1013.0	5.7	5.1	0	4	11	1.4	0	0	0	0	0	3	26	
		08	26.9	24.4	28.7	81	1014.2	5.0	5.4	0	1	14	1.5	0	0	0	0	0	0	12	18
		14	28.0	24.9	29.1	77	1012.3	6.3	5.2	0	3	14	1.3	0	0	0	0	0	0	11	19
		08	25.7	23.2	26.5	80	1016.9	5.1	4.9	0	2	20	9	0	0	0	0	0	5	26	
		14	27.6	23.9	26.7	72	1015.2	7.9	4.6	0	6	12	1.3	0	0	0	0	0	4	27	

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

COUNTRY STATION HEIGHT (above MSL)	MONTH HOUR	MEAN TEMPERATURE AND HUMIDITY				MEAN PRESS. REDUCED TO MSL hPa & tenths	MEAN WIND SPEED kt	TOTAL CLOUD AMOUNT (eights)			VISIBILITY IN km (No. of Obs)							
		DRY BULB °C	WET BULB °C	VAPOUR PRESS. hPa & tenths	REL HUM %			Number of observations			0.0 TO 0.3	0.4 TO 0.9	1.0 TO 1.9	3.2 TO 3.1	4.8 TO 4.7	7.1 TO 7.0		
								0	1.2	3-5								
ANTIGUA																		
V. C. Bird Airport	JUL 02	26.8	25.0	30.4	86	1016.3	13.1	4.5	9	2	20	9	0	0	0	0	29	
	08	28.7	25.7	30.8	78	1017.2	14.9	5.7	0	0	11	20	0	0	0	0	31	
	14	30.7	26.3	30.8	70	1016.7	16.2	5.3	0	3	9	19	0	0	0	0	30	
10m	20	27.5	25.2	30.2	82	1017.1	14.1	5.2	0	1	13	17	0	0	0	0	28	
	AUG 02	26.6	24.8	29.9	86	1013.9	9.1	4.4	0	4	17	8	2	0	0	0	30	
	08	28.0	25.5	30.6	81	1014.8	11.7	5.5	0	1	11	19	0	0	0	0	31	
	14	29.7	26.1	30.9	74	1014.1	13.9	5.8	0	0	10	19	2	0	0	0	29	
	20	27.2	25.0	30.0	83	1014.3	9.9	5.4	0	2	12	15	2	0	0	0	31	
	SEP 02	26.2	24.6	29.8	87	1011.4	12.5	4.3	0	8	8	7	3	0	0	1	24	
	08	27.6	25.4	30.6	83	1012.5	13.6	6.1	0	1	8	17	4	0	1	0	26	
	14	29.3	25.9	30.6	76	1011.7	14.6	6.1	0	1	10	13	6	0	0	1	29	
	20	26.9	24.9	30.1	85	1012.4	11.9	5.4	0	0	18	5	7	0	0	0	31	
OCT	02	25.7	24.0	28.7	87	1013.3	7.4	3.0	1	11	17	2	0	0	0	0	31	
	08	27.7	25.1	29.8	80	1014.8	8.6	4.8	0	2	18	10	1	0	0	1	30	
	14	29.7	25.7	29.7	71	1013.2	10.3	5.3	0	1	13	17	0	0	0	0	31	
	20	26.6	24.5	29.1	83	1014.2	9.3	4.1	0	6	18	7	0	0	0	0	31	
NOV	02	25.7	23.5	27.3	83	1013.1	10.5	3.4	0	10	15	4	0	0	0	0	30	
	08	26.8	24.1	27.9	79	1014.4	9.9	5.2	0	0	19	11	0	0	0	0	30	
	14	28.9	24.8	28.1	70	1012.7	11.7	5.0	0	1	19	10	0	0	0	0	30	
	20	26.2	23.7	27.3	80	1014.0	10.8	4.1	0	3	22	5	0	0	0	0	30	
DEC	02	24.5	22.4	25.6	83	1015.9	9.3	2.6	1	14	14	2	0	0	0	0	31	
	08	26.1	23.3	26.4	78	1017.0	10.9	3.7	0	8	18	4	1	0	0	0	31	
	14	28.3	24.0	26.6	69	1015.4	13.2	3.8	0	6	20	4	1	0	0	1	30	
	20	25.2	23.0	26.5	82	1016.7	10.1	3.2	0	11	17	2	1	0	0	0	31	

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE I - SUMMARY OF OBSERVATIONS AT FIXED HOURS 1989

TABLE II - SUMMARY OF DAILY OBSERVATIONS 1989

COUNTRY STATION	MONTH	TOTAL AMOUNT	RAINFALL (mm)				AIR TEMPERATURE °C				MEAN GRASS SUNSHINE HOURS				NO OF DAYS WITH			
			MOST IN A DAY	DATE	DAYS WITH, OR GREATER THAN		MAX	MIN	MEAN (A+B)/2	EXTREMES MAX MIN	MEAN MIN °C	TOTAL DURATION	HR	H	F	A	G	
					1.2	10.2	25.4	A	B									
GREENADA																		
Calivigny	JAN	66.1	10.0	28	17	0	0	28.4	24.3	26.3	30	22	255.8	0	0	0	0	
	FEB	91.0	13.0	3	15	3	0	27.6	24.4	26.0	29	20	237.5	0	0	0	0	
	MAR	86.2	23.8	20	17	1	0	27.7	24.6	26.1	29	22	263.6	0	0	0	0	
	APR	28.8	9.4	11	8	0	0	28.5	25.9	27.2	31	23	273.9	0	0	0	0	
	MAY	40.3	11.1	3	5	1	0	28.7	26.3	27.5	32	23	282.8	0	0	0	0	
	JUN	102.5	22.5	1	14	4	0	29.0	27.0	28.0	31	24	0	0	0	0	0	
	JUL	261.7	95.8	25	14	6	3	28.9	26.7	27.8	32	24	0	0	0	0	0	
	AUG	60.3	13.6	11	12	1	0	29.6	25.9	27.7	32	25	300.6	0	0	0	0	
	SEP	183.8	44.5	27	18	4	2	28.4	24.7	26.5	31	22	211.3	0	0	0	0	
	OCT	109.7	28.1	25	9	4	1	28.0	24.2	26.1	30	22	270.1	0	0	0	0	
	NOV	236.3	47.6	24	22	17	14	27.9	24.4	26.2	32	23	228.1	0	0	0	0	
Mirabeau	JAN	52.0	10.0	28	12	0	0	27.6	21.2	24.4	28	17	0	0	0	0	0	
	FEB	99.8	31.2	7	14	2	1	27.4	21.1	24.2	28	17	198.4	0	0	0	0	
	MAR	140.4	27.5	30	19	4	1	27.5	21.0	24.3	29	19	0	0	0	0	0	
	APR	44.5	13.3	1	10	1	0	28.2	22.2	25.2	29	20	0	0	0	0	0	
	MAY	144.2	61.3	31	9	4	2	28.6	22.4	25.5	29	20	0	0	0	0	0	
	JUN	147.5	48.3	1	12	4	1	28.6	23.2	25.9	30	22	0	0	0	0	0	
	JUL	261.7	59.2	9	19	6	4	29.1	23.0	26.0	30	21	0	0	0	0	0	
	AUG	113.7	34.0	8	11	5	1	30.0	22.9	26.4	31	21	0	0	0	0	0	
	SEP	322.5	49.2	27	25	11	4	29.9	22.8	26.3	32	21	0	0	0	0	0	
	OCT	140.4	51.0	3	12	4	2	29.7	22.7	26.2	31	21	0	0	0	0	0	

TABLE II - SUMMARY OF DAILY OBSERVATIONS 1989

COUNTRY STATION	MONTH	RAINFALL (mm)				AIR TEMPERATURE °C				MEAN GRASS				TOTAL SUNSHINE H				NO OF DAYS WITH							
		TOTAL AMOUNT	MOST IN A DAY	DAYS WITH, OR GREATER THAN		MEAN MAX A	MEAN MIN B (A+B)/2	EXTREMES MAX MAX MIN	MEAN MIN °C	HR	DURATION HR	H F O N G L	A I O S G L	G A I L	E										
				DATE	1.2	10.2	25.4																		
grenada																									
Point Salines	JAN	19.6	5.4	20	7	0	0	29.0	22.9	26.0	30	21							0	0	0	0			
Airport	MAR	46.8	15.2	20	8	1	0	29.0	22.9	26.0	30	22							0	0	0	0			
	APR	21.9	5.2	11	7	0	0	29.0	24.0	26.5	30	22							0	0	0	0			
	MAY	26.2	13.2	31	5	1	0	29.9	24.4	27.2	31	21							0	0	0	0			
	JUN	101.2	30.7	1	10	5	1	30.1	24.1	27.1	32	23							0	0	0	0			
	JUL	186.9	52.9	9	15	4	3	30.1	24.4	27.2	31	21							0	0	0	0			
	AUG	33.2	7.7	8	8	0	0	31.1	25.0	28.1	32	24							0	0	0	0			
	SEP	120.6	35.7	27	16	3	1	31.1	24.7	27.9	33	22							0	0	0	0			
	OCT	72.3	24.5	8	8	3	0	31.0	24.3	27.7	32	22							0	0	0	0			
	NOV	150.0	45.7	24	15	3	2	30.2	24.2	27.2	32	23							0	0	0	0			
	DEC	47.1	9.5	3	10	0	0	29.8	23.5	26.6	31	22							0	0	0	0			
st. lucia																									
Hewanorra Airport	JAN	67.4	12.3	2	13	2	0	28.9	23.5	26.2	30	22							275.5	0	0	0			
	FEB	70.8	14.0	24	13	1	0	28.6	22.7	25.6	30	20							264.3	0	0	0			
	MAR	271.3	104.6	30	16	6	3	28.5	23.4	25.9	30	21							260.8	0	0	0			
	APR	80.8	37.1	2	10	2	1	28.8	23.8	26.3	30	22							275.8	0	0	0			
	MAY	9.4	4.0	2	3	0	0	30.2	25.3	27.8	31	24							330.8	0	0	0			
	JUN	81.9	47.7	18	5	2	1	30.7	25.9	28.3	31	23							250.4	0	0	0			
	JUL	321.9	168.7	6	16	7	2	30.4	25.5	28.0	31	21							256.6	7	0	0			
	AUG	223.7	55.7	25	17	6	3	30.8	25.0	27.9	32	23							291.0	6	0	0			
	SEP	479.6	245.3	16	21	7	3	30.9	24.7	27.8	32	22							218.5	11	0	0			
	OCT	103.4	24.2	20	16	3	0	30.9	25.2	28.0	32	23							294.1	4	0	0			
	NOV	138.1	27.5	24	17	4	1	30.1	25.1	27.6	31	23							274.1	0	0	0			
	DEC	101.3	31.2	31	13	2	1	29.3	24.1	26.7	30	21							1	0	0	0			

TABLE II - SUMMARY OF DAILY OBSERVATIONS 1989

COUNTRY STATION	MONTH	RAINFALL (mm)			AIR TEMPERATURE °C			MEAN EXTREMES			TOTAL DURATION	NO OF DAYS WITH					
		TOTAL AMOUNT	MOST IN A DAY	DATE	DAYS WITH, OR GREATER THAN			MEAN MAX	MEAN MIN	(A+B)/2	MAX MIN	H	P	A			
					1.2	10.2	25.4					T	O	I			
ST. LUCIA	Roseau Winban	JAN	167.3	17.8	26	24	7	0	28.6	21.7	25.2	30	17	267.2	0	0	0
		FEB	119.7	20.6	26	17	3	0	28.1	21.8	24.9	29	19	249.7	0	0	0
		MAR	224.0	59.5	30	17	6	3	28.3	21.6	25.0	30	19	248.4	0	0	0
		APR	100.0	14.6	24	17	3	0	28.8	22.3	25.6	30	20	260.0	0	0	0
		MAY	133.6	2.5	29	6	0	0	30.2	23.0	26.6	32	21	326.3	0	0	0
		JUN	62.7	15.9	18	9	1	0	31.1	24.9	28.0	32	22	236.4	0	0	0
		JUL	275.9	60.3	6	22	8	2	30.6	24.3	27.5	32	22	241.6	0	0	0
		AUG	208.9	46.5	24	19	7	2	31.1	22.9	27.0	32	20	0	0	0	0
		SEP	404.1	57.3	17	26	13	6	31.1	23.3	27.2	33	22	174.9	0	0	0
Virgin Islands	Vigie Airport	JAN	113.1	18.1	29	18	2	0	28.6	22.7	25.6	29	21	0	0	0	0
		FEB	97.0	18.9	26	18	3	0	28.1	22.4	25.2	29	20	0	0	0	0
		MAR	168.0	41.9	30	17	5	2	28.3	22.8	25.5	29	22	0	0	0	0
		APR	89.9	16.0	9	14	1	0	28.8	23.0	25.9	30	21	0	0	0	0
		MAY	19.3	6.6	7	5	0	0	30.3	24.3	27.3	31	22	0	0	0	0
		JUN	49.3	14.6	18	6	1	0	31.0	25.3	28.2	32	23	0	0	0	0
		JUL	271.8	117.8	6	23	5	2	30.5	25.1	27.8	31	22	3	0	0	0
		AUG	239.5	53.7	30	18	7	3	30.6	24.5	27.5	32	23	4	0	0	0
		SEP	322.1	48.7	27	24	12	4	30.9	24.3	27.6	32	22	7	0	0	0
		OCT	107.3	19.3	29	16	2	0	31.0	24.4	27.7	32	22	3	0	0	0
		NOV	267.8	52.8	24	22	6	3	29.9	24.2	27.0	31	23	1	0	0	0
		DEC	208.0	117.6	31	12	3	2	29.1	23.1	26.1	30	21	1	0	0	0

TABLE II - SUMMARY OF DAILY OBSERVATIONS 1989

COUNTRY	STATION	RAINFALL (mm)				AIR TEMPERATURE ° C				MEAN TOTAL GRASS SUNSHINE H				NO OF DAYS WITH							
		MONTH	TOTAL AMOUNT	MOST IN A DAY	DATE	DAYS WITH, OR GREATER THAN		MEAN MAX	MEAN MIN	EXTREMES		DURATION HR	MIN ° C	MAX ° C	MAX MIN	HR	T	H	F	A	G
						1.	2.			(A+B)/2											
INDIA	MADRAS	JULY	1000	100	15-16	1	2	10.2	25.4	10.2	25.4	100	25	30	20	100	100	100	100	100	

DOMINICA											
Mellville Hall			Airport			Mellville Hall			Airport		
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
68.6	8.9	22	15	0	0	27.8	22.5	25.2	29	21	0
196.6	59.7	16	14	5	3	27.8	21.9	24.9	29	18	0
260.7	86.0	30	18	4	3	28.1	21.8	24.9	29	20	0
130.1	29.2	7	13	4	2	28.4	22.6	25.5	30	20	0
55.2	13.6	1	8	2	0	29.4	23.3	26.3	30	21	0
43.1	8.6	24	8	0	0	30.2	24.8	27.5	32	21	0
273.2	52.3	6	24	7	3	30.5	24.4	27.4	31	21	0
411.2	73.7	23	23	10	6	30.7	23.5	27.1	32	22	0
545.5	106.3	17	24	11	8	30.2	23.4	26.8	32	22	0
277.0	66.4	20	21	10	3	30.1	23.1	26.6	31	21	0
146.3	20.3	10	22	4	0	29.4	23.3	26.3	30	20	0
163.9	60.6	31	14	4	1	28.6	22.1	25.4	29	20	0

TABLE II - SUMMARY OF DAILY OBSERVATIONS 1989

COUNTRY STATION	MONTH	RAINFALL (mm)				AIR TEMPERATURE °C				TOTAL SUNSHINE HRS				NO OF DAYS WITH				
		TOTAL AMOUNT	MOST IN A DAY	DAYS WITH OR MORE THAN		MEAN MAX	MEAN MIN	EXTREMES (A+B)/2	MEAN MAX MIN	MEAN MIN °C	TOTAL DURATION HR	H	F	O	N	G	L	E
				DATE	1.2	10.2	25.4	A	B									
ST. KITTS																		
National	JAN	73.4	25.3	11	14	1	0	28.4	21.9	25.2	30	20			1	0	0	0
Agric. Corp.	FEB	133.9	53.7	26	16	3	1	28.2	21.7	24.9	30	19			2	0	0	0
	MAR	66.0	15.7	22	9	3	0	28.2	22.0	25.1	31	20			0	0	0	0
	APR	77.6	23.0	2	12	3	0	29.1	22.8	25.9	32	21			0	0	0	0
	MAY	35.4	12.9	6	7	1	0	30.5	23.9	27.2	32	22			0	0	0	0
	JUN	17.4	11.3	1	3	1	0	30.7	25.2	27.9	32	23			0	0	0	0
	JUL	102.2	13.8	6	16	3	0	31.5	25.2	28.3	33	22			0	0	0	0
	AUG	205.2	82.3	18	14	4	3	31.6	26.1	28.9	33	22			2	0	0	0
	SEP	245.9	91.0	17	17	9	2	30.9	24.7	27.8	33	21			3	0	0	0
	OCT	69.8	28.6	20	8	2	1	31.0	24.8	27.9	32	23			4	0	0	0
	NOV	86.7	17.5	14	11	1	0	29.9	24.2	27.0	31	22			0	0	0	0
	DEC	67.9	22.7	28	11	1	0	29.6	23.4	26.5	31	21			0	0	0	0
CAYMAN ISLANDS																		
West Bay G. C.	AUG	72.1	38.5	12	4	3	1	31.1	25.2	28.2	33	23			274.3	0	0	0
	SEP	228.1	62.5	6	17	5	2	32.2	24.9	28.5	38	22			259.0	0	0	0
	OCT	20.3	11.5	7	3	1	0	31.1	24.6	27.8	32	21			266.7	0	0	0
	NOV	120.3	32.2	1	8	6	1	30.5	23.8	27.2	33	21			218.8	0	0	0
	DEC	234.6	125.9	3	10	5	2	28.5	22.5	25.5	33	18			165.2	0	0	0

TABLE III - SUMMARY OF AGRMETEOROLOGICAL OBSERVATIONS 1989

COUNTRY STATION	MONTH	RUN OF WIND (kilometers)		EVAPORATION (mm)			TOTAL RADIATION (MJ/M ²)		
		DAILY	MOST IN A DAY	TOTAL AMOUNT	MOST IN A DAY	DATE	TOTAL AMOUNT	MOST IN A DAY	LEAST IN A DAY

GRENADA
Mirabeau

FEB	156	262
MAR	143	223
APR	158	310
MAY	147	243
JUN	154	233
JUL	124	201
AUG	107	169
SEP	84	130
OCT	87	176

ST.LUCIA

Hewanorra
Airport

JAN	338	554	213.5	10.4	16
FEB	359	505	226.9	12.0	1
MAR	345	407			
APR	326	460	248.4	11.0	13
MAY	331	404	287.8	10.8	3
JUN	326	415	252.3	10.8	15
JUL	249	360			
AUG	216	295	233.9	10.8	11
SEP	220	352	186.5M	10.7	30
OCT	213	335	212.2	9.9	10
NOV	304	427	173.4	8.7	2
DEC	310	394			

Roseau Winban

JAN	125	229	117.1	5.7	20
FEB	131	185	103.1	5.6	7
MAR	126	215	152.6	7.6	7
APR	137	213	162.9	8.6	23
MAY	142	245	199.1	8.7	13
JUN	151	228	173.4	7.9	8
JUL	120	165	153.0	7.9	27
AUG	79	117	148.1	8.8	10
SEP	76	178	113.9	8.8	9

TABLE III - SUMMARY OF AGRMETEOROLOGICAL OBSERVATIONS 1989

COUNTRY STATION	MONTH	RUN OF WIND (kilometers)		EVAPORATION (mm)			TOTAL RADIATION (MJ/M ²)		
		DAILY	MOST IN A DAY	TOTAL AMOUNT	MOST IN A DAY	DATE	TOTAL AMOUNT	MOST IN A DAY	LEAST IN A DAY

ST.KITTS

National	JAN	177	278	162.5	8.0	29			
Agric. Corp.	FEB	215	356	161.1	8.6	26			
	MAR	190	321	191.6	8.7	4			
	APR	165	341	171.5	9.5	12			
	MAY	144	235	203.3	9.1	17			
	JUN	179	271	196.1	9.0	29			
	JUL	167	269	198.6	9.2	15			
	AUG	103	174	171.0	9.4	17			
	SEP	114	656	141.8M	9.5	3			
	OCT	94	221	168.8	8.1	17			
	NOV	138	296	154.7	8.6	18			
	DEC	114	204	151.0	7.5	15			

CAYMAN ISLANDS

West Bay	AUG	123	241		678.96	27.95	9.39		
	SEP	127	282	168.8M	9.6	21	659.07	26.56	14.50
	OCT	159	443	197.4	10.7	24	655.16	26.48	7.00
	NOV	180	328	149.1	8.2	12	540.55	25.31	7.21
	DEC	201	402	136.5	7.1	26	440.82	20.66	4.69

TABLE IV - SUMMARY OF RAINFALL INTENSITY RECORDS 1989

COUNTRY STATION	MONTH	MAXIMUM AMOUNTS (mm) IN RAINFALL DAY DURING SPECIFIED PERIODS OF TIME							
		5 mins	10 mins	15 mins	30 mins	1 hour	2 hours	6 hours	12 hours
Cayman Islands									
West Bay	AUG	12.3	16.8	17.7	22.7	22.7	36.4	38.3	38.3
	SEP	17.6	23.3	23.3	30.9	32.2	48.4	55.4	55.4
	OCT	1.8	2.9	3.7	3.7	3.8	7.3	10.0	10.0
	NOV	12.5	13.9	15.0	15.4	20.6	25.1	31.9	32.2
	DEC	27.5	27.5	27.5	52.0	55.0	55.6	56.9	90.0

TABLE V - SUMMARY OF WINDSPEED RECORDS 1989

COUNTRY STATION	MONTH	HIGHEST HOURLY WIND (kt)				HIGHEST GUST (kt)				NO.OF HOURS WITH GUST EXCEEDING			MEAN WIND SPEED kt
		DIRN	SPEED	HOUR ENDED	DATE	DIRN	SPEED	TIME	LST	DATE	33	47	63
ST. VINCENT E. T. Joshua Airport	JAN	12	23	11	10	12	31	1300	23	0	0	0	13.7

ST. VINCENT E. T. Joshua Airport	MAR	10	19	12	9	10	34	1445	8	1	0	0	13.2
	APR	11	20	11	12	12	33	0950	10	0	0	0	12.8
	MAY	11	23	13	22	11	34	1155	22	1	0	0	13.1
	JUN	12	19	11	28	12	34	0620	9	1	0	0	13.0
	JUL	10	18	10	23	10	30	0000	28	0	0	0	12.8
	AUG	8	15	11	13	9	31	1355	13	0	0	0	12.4
	SEP	25	18	20	16	6	28	0640	22	0	0	0	12.1
	OCT	12	16	10	30	12	28	1455	24	0	0	0	11.8
	NOV	11	20	18	10	11	33	1800	10	0	0	0	11.7
	DEC	10	19	14	22	12	33	1505	26	0	0	0	11.8

TABLE VI - SUMMARY OF SUNSHINE RECORDS 1989

COUNTRY	STATION	MEAN DURATION (hundredths of an hour) DURING SPECIFIED HOURS (Local Apparent Time)												TOTAL DURATION (hours)	PERCENT POSSIB. DAY	MOST IN A DATE	DAYS WITH AMOUNTS WITHIN RANGES (hours)									
		MONTH	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	NIL	TO	TO	TO	TO	TO	TO		
	MONTH	06	07	08	09	09	10	11	12	13	14	15	16	17	18	19	3.0	6.0	9.0	12.	12.	15.	18.	> 18.		
GRENADA	Calvigny	JAN	0	3	52	74	88	90	93	94	85	86	83	70	7	0	255.8	72	10.3	27	0	0	3	.16	12	0
		FEB	0	5	56	79	88	88	89	88	84	77	77	77	28	0	237.5	72	10.5	12	0	0	3	10	15	0
		MAR	0	12	66	89	88	90	87	83	79	83	80	70	25	0	263.6	71	11.0	29	0	2	3	8	18	0
		APR	0	13	63	89	89	89	90	89	93	92	91	80	35	0	273.9	74	10.9	26	0	1	2	5	22	0
		MAY	0	18	65	78	85	86	92	94	93	91	84	75	52	0	282.8	72	11.4	28	0	0	2	11	18	0
		JUN	0	18	79	86	93	97	96	92	96	93	88	80	52	0	300.6	77	11.2	7	0	0	1	6	24	0
		JUL	0	18	79	86	93	97	96	92	96	93	88	80	52	0	300.6	77	11.2	7	0	0	1	6	24	0
		SEP	0	7	52	67	68	76	73	75	73	78	71	53	11	0	211.3	58	10.5	29	0	4	6	12	8	0
		OCT	0	21	64	87	93	93	90	89	85	86	87	72	5	0	270.1	73	10.7	18	0	1	2	8	20	0
		NOV	0	20	67	75	73	80	77	79	82	81	68	57	0	1	228.1	66	10.6	1	0	4	3	10	13	0
		DEC	0	18	74	80	91	98	98	97	95	91	92	66	16	0	264.3	81	10.9	15	0	0	2	9	18	0
ST. LUCIA	Desawanorra Airport	JAN	0	14	79	81	83	90	91	94	93	91	93	71	7	0	275.5	78	10.6	14	0	0	2	9	18	0
		FEB	0	25	82	90	93	98	97	95	98	92	92	66	16	0	264.3	81	10.9	15	0	0	0	7	19	0
		APR	0	33	76	83	86	88	93	91	92	91	84	70	32	0	275.8	74	10.9	30	0	1	1	6	21	0
		MAY	0	54	92	96	96	98	99	100	99	100	97	89	48	0	330.8	84	11.9	6	0	0	0	2	29	0
		JUN	0	30	57	71	83	88	93	93	89	82	71	57	21	0	250.4	65	11.6	20	0	2	4	6	16	0
		JUL	0	35	74	84	89	85	80	78	78	74	70	59	21	0	256.6	64	11.7	12	0	3	2	10	16	0
		AUG	3	56	85	88	89	85	83	84	86	82	82	81	35	0	291.0	75	11.7	16	0	3	1	1	24	0
		SEP	0	19	59	75	87	82	78	70	64	54	41	11	0	218.5	60	11.6	2	0	2	8	9	10	0	
		OCT	0	32	84	90	86	91	96	95	94	93	90	74	24	0	294.1	80	11.2	28	0	1	2	5	22	0
		NOV	0	18	74	80	91	88	93	96	95	93	86	81	17	0	274.1	81	10.9	2	0	1	6	17	0	

TABLE VI SUMMARY OF SUNSHINE RECORDS 1989

COUNTRY STATION	MEAN DURATION (Hundreds of an hour) DURING SPECIFIED HOURS (Local Apparent Time)												TOTAL DURATION (hours)	PERCENT POSSIB. DAY	MOST IN A DATE	DAYS WITH AMOUNTS WITHIN RANGES (hours)									
	MONTH	05 TO 06	06 TO 07	07 TO 08	08 TO 09	09 TO 10	10 TO 11	11 TO 12	12 TO 13	13 TO 14	14 TO 15	15 TO 16	16 TO 17	17 TO 18	NIL TO 3.0	0.1 TO 3.0	3.1 TO 6.0	6.1 TO 9.0	9.1 TO 12.0						
ST. LUCIA Roseau Winban	JAN	0	4	56	79	86	89	93	94	93	91	89	73	15	0	267.2	76	10.5	17	0	1	2	15	13	0
	FEB	0	8	64	84	86	89	93	90	94	90	79	24	0	249.7	76	10.5	16	0	0	1	12	15	0	
	MAR	0	17	62	77	81	75	74	80	81	80	77	72	25	0	248.4	67	10.6	12	2	1	3	4	21	0
	APR	0	20	64	80	87	85	74	79	86	85	82	78	48	0	260.0	69	11.3	19	0	3	2	4	21	0
	MAY	0	43	85	92	97	97	96	95	97	97	95	94	65	0	326.3	82	11.9	9	0	0	0	3	28	0
	JUN	0	22	52	64	79	82	84	85	85	82	73	55	24	0	236.4	61	11.9	20	0	2	5	10	13	0
	JUL	0	19	60	69	83	84	68	73	75	76	79	62	32	0	241.6	61	11.5	17	0	3	4	9	15	0
	SEP	0	10	45	61	65	63	54	57	57	55	51	45	17	2	174.9	48	11.5	15	0	8	9	5	8	0
DOMINICA Melville Hall Airport	JAN	0	0	41	63	70	73	74	78	81	70	56	24	0	0	195.6	56	9.1	19	0	3	8	19	1	0
	FEB	0	4	50	71	79	83	86	88	81	81	68	37	5	0	205.6	63	9.4	27	0	2	2	21	3	0
	MAR	0	15	61	66	66	72	70	81	82	80	71	55	13	0	227.6	61	10.6	29	0	2	5	16	8	0
	APR	0	28	56	66	67	73	74	69	76	70	68	55	28	0	219.4	58	11.3	20	1	3	4	11	11	0
	MAY	1	55	77	84	89	94	90	88	89	86	87	76	41	1	297.0	75	12.0	9	0	1	2	5	23	0
	JUN	1	33	58	76	72	69	67	71	68	59	59	44	17	0	208.6	53	11.4	28	0	4	7	9	10	0
	JUL	1	35	63	70	80	84	80	79	80	76	64	54	22	1	244.7	62	12.0	12	0	2	5	11	13	0
	AUG	0	43	76	80	79	80	73	72	74	72	67	51	24	0	245.0	62	11.2	20	0	4	3	7	17	0
	SEP	0	14	41	56	62	68	69	63	56	50	30	9	0	0	174.2	48	10.8	2	2	5	6	12	5	0
	OCT	0	10	52	77	89	82	82	78	82	78	66	62	15	0	240.2	66	10.6	8	1	0	6	15	9	0
	NOV	0	2	51	73	87	85	87	83	79	70	64	36	5	1	216.9	63	10.2	2	0	2	4	22	2	0
	DEC	0	0	38	71	78	80	81	83	81	73	72	47	3	0	219.6	63	9.6	1	0	2	6	17	6	0
CAYMAN ISLANDS West Bay	AUG	0	43	69	80	89	89	79	86	75	75	70	62	60	8	274.3	69	12.0	10	0	2	1	9	19	0
	SEP	0	27	83	89	93	88	86	81	78	75	68	66	29	0	259.0	70	11.5	2	0	3	13	14	0	
	OCT	0	16	70	82	89	89	85	82	78	81	75	25	0	266.7	73	11.0	26	1	2	2	5	21	0	
	NOV	0	6	62	72	77	80	80	78	77	72	63	52	10	0	218.8	65	10.5	8	3	3	1	9	14	0
	DEC	0	1	35	46	53	52	58	66	58	57	49	50	8	0	165.2	48	10.0	31	1	9	6	10	5	0